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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,195	07/31/2003	Gerard Chauvel	TI-35485 (1962-05419)	2163
23494 7590 05/07/2007 TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999 DALLAS, TX 75265			EXAMINER MIZRAHI, DIANE D	
			ART UNIT	PAPER NUMBER
			2165	
			MAIL DATE	DELIVERY MODE
			05/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/631,195

Applicant(s)

CHAUVEL, GERARD

Examiner

DIANE D. MIZRAHI

Art Unit

2165

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8, 15-22 and 25-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8, 15-22 and 25-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

DIANE MIZRAHI
PRIMARY EXAMINER

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claims 1-8, 15-22, and 25-30 are pending in the present application.

Claims 1-8, 15-22, and 25-30 are rejected. Claims 9-14 and 23-24 have been canceled by Applicant.

Request for Continued Examination

This is in response to request for amendments filed November 8, 2006 Continued Examination Under 37 CFR 1.114.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 8, 2006 has been entered.

Claim Objections

Claim 26-30 are objected to because of the following informalities: Regarding Claims 26-30, the claimed, "computer-readable media" should read "computer-readable storage medium". Appropriate action is required.

Claim Rejections - 35 USC 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 4 is are rejected under 35 U.S.C. 101 because the claims are directed to a non-statutory subject matter, specifically, the claims are not directed towards the final result that is “useful, tangible and concrete.

See State Street, 149 F.3d at 1373-74 USPQ2d at 1601-02 and Alappat, 33 F.3d at 1544, 31 USPQ2d at 1557). The decisions state to be eligible for patent protection, the claimed invention as a whole must accomplish a practical application. A claim limited to a machine or manufacture, which has a practical application, is statutory. Alappat, 33 F.3d at 1544, 31 USPQ2d at 1557). That is, it must produce a “useful, concrete and tangible result”. The purpose of this requirement is to limit patent protection to inventions that possess a certain level of “real world” value as opposed to subject matter that represents nothing more than an idea or concept, or is simply a starting point for future investigation or research (Brenner v. Manson, 383 U.S. 519, 528-36, 148 USPQ 689, 693-96 (1966); In re Fisher, 421 F.3d 1365, 76 USPQ 2d 1255 (Fed. Cir. 2005); In re Ziegler, 992 F.2d 1197, 1200-03, 26 USPQ 2d 1600, 1603-06(Fed. Cir.1993).

Regarding Claim 4, Applicant recites conditional limitations for producing results, such as the claimed, “if the predetermined threshold value has been reached...” such that the condition is not met, the claims will generate no useful, concrete, and tangible results. The result of the claimed, “polling” is conditional and will take place only the claimed, “if the predetermined threshold value has been reached...” . There appears to be no generating or production of any useful, concrete, and tangible results.

Examiner recommends Applicant to amend the claims without adding any new matter to the originally filed specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-8, 15-22, and 25-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Furukawa et al. (US Publication No. 20010054034 A1 and Furukawa hereinafter).

Regarding Claims 1, 15 and 26, Furukawa teaches a memory device (Abstract), a first processor and second processor (i.e. virtual multi-processor)[0456][0172].. a counter... (i.e. counter)[0360] and (i.e. register)[0172](Figure 12)[0643]... memory consumption... [0147]...unused memory [0863]... garbage collector [0924].... trigger based on value of a counter [0287].

Regarding Claim 2, Furukawa teaches threshold value [0136]... counter [0360]... garbage collector [0924] is triggered [0287].

Regarding Claim 3, Furukawa teaches counter sends an interrupt [0130][0643].

Regarding Claim 4, Furukawa teaches a counter to check threshold value... garbage collector is triggered [0360][0287].

Regarding Claim 5, Furukawa teaches counter ... requesting memory allocation [0276][0708].

Regarding Claim 6, Furukawa teaches requesting memory allocation... [0276][[0708]...
counter [0360][0130] updated [0649].. memory usage value [0136][0863].

Regarding Claim 7, Furukawa teaches counter... memory device [0360][Abstract].

Regarding Claim 8, Furukawa teaches Requesting another memory allocation task
[0341][0286][0372].

Regarding Claims 16-22, and 25-30 are similar in scope to the rejected claims above and
are therefore rejected as set forth above.

Other Prior Art Made of Record

The prior art made of record and not relied upon is considered pertinent to Applicant's
disclosure. U.S. patents and U.S. patent application publications will not be supplied with Office
actions. Examiners advises the Applicant that the cited U.S. patents and patent application
publications are available for download via the Office's PAIR. As an alternate source, all U.S.
patents and patent application publications are available on the USPTO web site
(www.uspto.gov), from the Office of Public Records and from commercial sources. For the use
of the Office's PAIR system, Applicants may refer to the Electronic Business Center (EBC) at
<http://www.uspto.gov/ebc/index.html> or 1-866-217-9197.

Conclusion

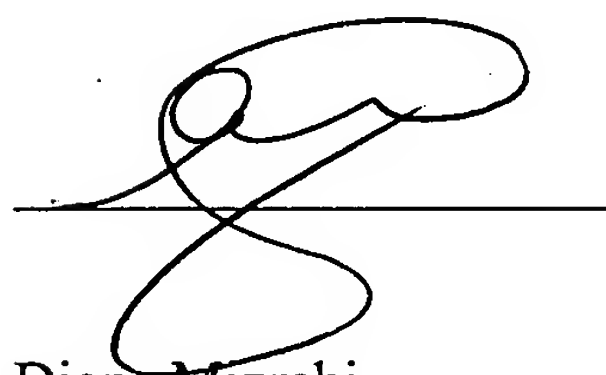
Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Diane D. Mizrahi whose telephone number is 571-272-4079. The
examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's
supervisor, Jeffrey Gaffin can be reached on (571) 272-4146. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 305-3900 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

A handwritten signature in black ink, appearing to be 'Diane Mizrahi', is written over a horizontal line.

Diane Mizrahi
Primary Patent Examiner
diane.mizrah@uspto.gov
Technology Center 2100

April 23, 2007